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SEQUENCE LISTING

<110> Genox Research, Inc.

National Center for Child Health and Development

<120> Methods for examination for allergic diseases, and drugs for
treating allergic diseases

<130> G1-A0212-US

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<150> JP 2002-188490

<151> 2002-06-27

<160> 18

<170> PatentIn Ver. 2.0

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<211> 3794

<212> DNA

<213> Homo sapiens

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<221> CDS

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 Ser Ser Tyr Ala Ala Gln Thr Tyr Ser Ser Glu Tyr Thr Thr Glu Ile
 15 20 25 30

atg aac ccc gac tac acc aag ctg acc atg gac ctt ggc agc act gag 867
 Met Asn Pro Asp Tyr Thr Lys Leu Thr Met Asp Leu Gly Ser Thr Glu
 35 40 45

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 Ile Thr Ala Thr Ala Thr Thr Ser Leu Pro Ser Ile Ser Thr Phe Val
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gag ggc tac tcg agc aac tac gaa ctc aag cct tcc tgc gtg tac caa 963
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cat cac cat cac cac cac cac cac cac cat cac cag cag 1059
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 Val Leu Pro Ser Thr Ser Met Tyr Phe Lys Gln Ser Pro Pro Ser Thr
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ccc acc acg ccg gcc ttc ccc ccg cag gcg ggg gcg tta tgg gac gag 1203
 Pro Thr Thr Pro Ala Phe Pro Pro Gln Ala Gly Ala Leu Trp Asp Glu
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 Ala Leu Pro Ser Ala Pro Gly Cys Ile Ala Pro Gly Pro Leu Leu Asp
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 Pro Pro Met Lys Ala Val Pro Thr Val Ala Gly Ala Arg Phe Pro Leu
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 Phe His Phe Lys Pro Ser Pro Pro His Pro Pro Ala Pro Ser Pro Ala
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 Gly Gly His His Leu Gly Tyr Asp Pro Thr Ala Ala Ala Ala Leu Ser

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| ctg ccg ctg gga gcc gca gcc gcc gcg ggc agc cag gcc gcc gcg ctt | | | 1443 |
| Leu Pro Leu Gly Ala Ala Ala Ala Ala Gly Ser Gln Ala Ala Ala Leu | | | |
| 225 | 230 | 235 | |
| gag agc cac ccg tac ggg ctg ccg ctg gcc aag agg gcg gcc ccg ctg | | | 1491 |
| Glu Ser His Pro Tyr Gly Leu Pro Leu Ala Lys Arg Ala Ala Pro Leu | | | |
| 240 | 245 | 250 | |
| gcc ttc ccg cct ctc ggc ctc acg ccc tcc cct acc gcg tcc agc ctg | | | 1539 |
| Ala Phe Pro Pro Leu Gly Leu Thr Pro Ser Pro Thr Ala Ser Ser Leu | | | |
| 255 | 260 | 265 | 270 |
| ctg ggc gag agt ccc agc ctg ccg tcg ccg ccc agc agg agc tcg tcg | | | 1587 |
| Leu Gly Glu Ser Pro Ser Leu Pro Ser Pro Pro Ser Arg Ser Ser Ser | | | |
| 275 | 280 | 285 | |
| tct ggc gag ggc acg tgt gcc gtg tgc ggg gac aac gcc gcc tgc cag | | | 1635 |
| Ser Gly Glu Gly Thr Cys Ala Val Cys Gly Asp Asn Ala Ala Cys Gln | | | |
| 290 | 295 | 300 | |
| cac tac ggc gtg cga acc tgc gag ggc tgc aag gcc ttt ttc aag aga | | | 1683 |
| His Tyr Gly Val Arg Thr Cys Glu Gly Cys Lys Gly Phe Phe Lys Arg | | | |
| 305 | 310 | 315 | |
| aca gtg cag aaa aat gca aaa tat gtt tgc ctg gca aat aaa aac tgc | | | 1731 |
| Thr Val Gln Lys Asn Ala Lys Tyr Val Cys Leu Ala Asn Lys Asn Cys | | | |
| 320 | 325 | 330 | |
| cca gta gac aag aga cgt cga aac cga tgt cag tac tgt cga ttt cag | | | 1779 |
| Pro Val Asp Lys Arg Arg Arg Asn Arg Cys Gln Tyr Cys Arg Phe Gln | | | |
| 335 | 340 | 345 | 350 |
| aag tgt ctc agt gtt gga atg gta aaa gaa gtt gtc cgt aca gat agt | | | 1827 |
| Lys Cys Leu Ser Val Gly Met Val Lys Glu Val Val Arg Thr Asp Ser | | | |

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 Leu Lys Gly Arg Arg Gly Arg Leu Pro Ser Lys Pro Lys Ser Pro Leu
 370 375 380

caa cag gaa cct tct cag ccc tct cca cct tct cct cca atc tgc atg 1923
 Gln Gln Glu Pro Ser Gln Pro Ser Pro Pro Ser Pro Pro Ile Cys Met
 385 390 395

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 Met Asn Ala Leu Val Arg Ala Leu Thr Asp Ser Thr Pro Arg Asp Leu
 400 405 410

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 Asp Tyr Ser Arg Tyr Cys Pro Thr Asp Gln Ala Ala Ala Gly Thr Asp
 415 420 425 430

gct gag cat gtg caa caa ttc tac aac ctc ctg aca gcc tcc att gat 2067
 Ala Glu His Val Gln Gln Phe Tyr Asn Leu Leu Thr Ala Ser Ile Asp
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 Val Ser Arg Ser Trp Ala Glu Lys Ile Pro Gly Phe Thr Asp Leu Pro
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aaa gaa gat cag aca tta ctt att gaa tca gcc ttt ttg gag ctg ttt 2163
 Lys Glu Asp Gln Thr Leu Leu Ile Glu Ser Ala Phe Leu Glu Leu Phe
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gtc ctc aga ctt tcc atc agg tca aac act gct gaa gat aag ttt gtg 2211
 Val Leu Arg Leu Ser Ile Arg Ser Asn Thr Ala Glu Asp Lys Phe Val
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ttc tgc aat gga ctt gtc ctg cat cga ctt cag tgc ctt cgt gga ttt 2259
 Phe Cys Asn Gly Leu Val Leu His Arg Leu Gln Cys Leu Arg Gly Phe

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 Gly Glu Trp Leu Asp Ser Ile Lys Asp Phe Ser Leu Asn Leu Gln Ser
 515 520 525

ctg aac ctt gat atc caa gcc tta gcc tgc ctg tca gca ctg agc atg 2355
 Leu Asn Leu Asp Ile Gln Ala Leu Ala Cys Leu Ser Ala Leu Ser Met
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 Ile Thr Glu Arg His Gly Leu Lys Glu Pro Lys Arg Val Glu Glu Leu
 545 550 555

tgc aac aag atc aca agc agt tta aaa gac cac cag agt aag gga cag 2451
 Cys Asn Lys Ile Thr Ser Ser Leu Lys Asp His Gln Ser Lys Gly Gln
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gct ctg gag ccc acc gag tcc aag gtc ctg ggt gcc ctg gta gaa ctg 2499
 - Ala Leu Glu Pro Thr Glu Ser Lys Val Leu Gly Ala Leu Val Glu Leu
 575 580 585 590

agg aag atc tgc acc ctg ggc ctc cag cgc atc ttc tac ctg aag ctg 2547
 Arg Lys Ile Cys Thr Leu Gly Leu Gln Arg Ile Phe Tyr Leu Lys Leu
 595 600 605

gaa gac ttg gtg tct cca cct tcc atc att gac aag ctc ttc ctg gac 2595
 Glu Asp Leu Val Ser Pro Pro Ser Ile Ile Asp Lys Leu Phe Leu Asp
 610 615 620

acc cta cct ttc taatcaggag cagtggagca gtgagctgcc tccctctccta 2647
 Thr Leu Pro Phe
 625

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8/19

gaaggat

3794

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<213> Homo sapiens

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Pro Asp Tyr Thr Lys Leu Thr Met Asp Leu Gly Ser Thr Glu Ile Thr
35 40 45

Ala Thr Ala Thr Thr Ser Leu Pro Ser Ile Ser Thr Phe Val Glu Gly
50 55 60

Tyr Ser Ser Asn Tyr Glu Leu Lys Pro Ser Cys Val Tyr Gln Met Gln
65 70 75 80

Arg Pro Leu Ile Lys Val Glu Glu Gly Arg Ala Pro Ser Tyr His His
85 90 95

His His His His His His His His His His His Gln Gln Gln His
100 105 110

Gln Gln Pro Ser Ile Pro Pro Ala Ser Ser Pro Glu Asp Glu Val Leu
115 120 125

Pro Ser Thr Ser Met Tyr Phe Lys Gln Ser Pro Pro Ser Thr Pro Thr
130 135 140

Thr Pro Ala Phe Pro Pro Gln Ala Gly Ala Leu Trp Asp Glu Ala Leu
 145 150 155 160

Pro Ser Ala Pro Gly Cys Ile Ala Pro Gly Pro Leu Leu Asp Pro Pro
 165 170 175

Met Lys Ala Val Pro Thr Val Ala Gly Ala Arg Phe Pro Leu Phe His
 180 185 190

Phe Lys Pro Ser Pro Pro His Pro Pro Ala Pro Ser Pro Ala Gly Gly
 195 200 205

His His Leu Gly Tyr Asp Pro Thr Ala Ala Ala Ala Leu Ser Leu Pro
 210 215 220

Leu Gly Ala Ala Ala Ala Ala Gly Ser Gln Ala Ala Ala Leu Glu Ser
 225 230 235 240

His Pro Tyr Gly Leu Pro Leu Ala Lys Arg Ala Ala Pro Leu Ala Phe
 245 250 255

Pro Pro Leu Gly Leu Thr Pro Ser Pro Thr Ala Ser Ser Leu Leu Gly
 260 265 270

Glu Ser Pro Ser Leu Pro Ser Pro Pro Ser Arg Ser Ser Ser Ser Gly
 275 280 285

Glu Gly Thr Cys Ala Val Cys Gly Asp Asn Ala Ala Cys Gln His Tyr
 290 295 300

Gly Val Arg Thr Cys Glu Gly Cys Lys Gly Phe Phe Lys Arg Thr Val
 305 310 315 320

Gln Lys Asn Ala Lys Tyr Val Cys Leu Ala Asn Lys Asn Cys Pro Val
 325 330 335

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Asp Lys Arg Arg Arg Asn Arg Cys Gln Tyr Cys Arg Phe Gln Lys Cys
340 345 350

Leu Ser Val Gly Met Val Lys Glu Val Val Arg Thr Asp Ser Leu Lys
355 360 365

Gly Arg Arg Gly Arg Leu Pro Ser Lys Pro Lys Ser Pro Leu Gln Gln
370 375 380

Glu Pro Ser Gln Pro Ser Pro Pro Ser Pro Pro Ile Cys Met Met Asn
385 390 395 400

Ala Leu Val Arg Ala Leu Thr Asp Ser Thr Pro Arg Asp Leu Asp Tyr
405 410 415

Ser Arg Tyr Cys Pro Thr Asp Gln Ala Ala Ala Gly Thr Asp Ala Glu
420 425 430

His Val Gln Gln Phe Tyr Asn Leu Leu Thr Ala Ser Ile Asp Val Ser
435 440 445

Arg Ser Trp Ala Glu Lys Ile Pro Gly Phe Thr Asp Leu Pro Lys Glu
450 455 460

Asp Gln Thr Leu Leu Ile Glu Ser Ala Phe Leu Glu Leu Phe Val Leu
465 470 475 480

Arg Leu Ser Ile Arg Ser Asn Thr Ala Glu Asp Lys Phe Val Phe Cys
485 490 495

Asn Gly Leu Val Leu His Arg Leu Gln Cys Leu Arg Gly Phe Gly Glu
500 505 510

Trp Leu Asp Ser Ile Lys Asp Phe Ser Leu Asn Leu Gln Ser Leu Asn
515 520 525

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Leu Asp Ile Gln Ala Leu Ala Cys Leu Ser Ala Leu Ser Met Ile Thr
530 535 540

Glu Arg His Gly Leu Lys Glu Pro Lys Arg Val Glu Glu Leu Cys Asn
545 550 555 560

Lys Ile Thr Ser Ser Leu Lys Asp His Gln Ser Lys Gly Gln Ala Leu
565 570 575

Glu Pro Thr Glu Ser Lys Val Leu Gly Ala Leu Val Glu Leu Arg Lys
580 585 590

Ile Cys Thr Leu Gly Leu Gln Arg Ile Phe Tyr Leu Lys Leu Glu Asp
595 600 605

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Pro Phe
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<212> DNA

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<210> 14

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<212> DNA

<213> Homo sapiens

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<211> 21

<212> DNA

<213> Artificial Sequence

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<210> 18

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